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**TABLE 3**  
Possible Adverse Effects of Anabolic Steroids\*

Liver
Hepatocellular damage
Cholestasis
Peliosis hepatis
Hepatoadenoma
Hepatocarcinoma
Reproductive
Males
Testicular atrophy
Oligo- or azoospermia
Impotence
Prostatic hypertrophy
Prostatic carcinoma
Gynecomastia
Females
Amenorrhea
Clitoromegaly
Uterine atrophy
Breast atrophy
Teratogenicity
Musculoskeletal
Early closure of physes in children (shorter adult height)
Increased rate of muscle strains/ruptures
Endocrine (other than reproductive)
Decreased glucose tolerance
Integument
Acne
Striae
Hirsutism
Male pattern baldness
Edema
Larynx
Deepening of the voice

Cardiovascular

Increased cholesterol

Decreased HDL cholesterol

Increased blood pressure

Thrombosis

Urinary

Wilm's tumor

Psychologic

Mood swings

Aggressiveness

Depression

Psychosis

Addiction

Immunologic (infectious)

Decreased IgA levels

Hepatitis B or C; HIV infection (if needles are shared)

Withdrawal and Dependency Disorders

\* Adapted from Landry and Primos.<sup>20</sup>

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